

Product datasheet for MC223875

Inpp5d (NM_001110192) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inpp5d (NM_001110192) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Inpp5d
Synonyms:	p150Ship; s-SHIP; SHIP; SHIP-1; SHIP1; SIP-145
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223875 representing NM_001110192 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCATGGTCCCTGGGTGGAACCATGGCAACATCACCCGCTCCAAGGCAGAGGAGCTACTTTCCA
GAGCCGGCAAGGACGGGAGCTTCTTGTGCGTGCCAGCGAGTCCATCCCCGGGCCTACGACTCTGCGT
GCTGTTCCGGAATTGTGTTTACACTTACAGGATTCGCCAATGAGGACGATAAAATTCAGTTCAGGCA
TCCGAAGGTGTCCCATGAGGTTCTTACGAAGCTGGACCAGCTCATCGACTTTTACAAGAAGGAAAACA
TGGGGCTGGTGACCCACCTGCAGTACCCCGTGCCCTGGAGGAGGAGGATGCTATTGATGAGGCTGAGGA
GGACACTGAAAGTGTCATGTACCCACCTGAGCTGCCTCCCAGAAAACATTCCTATGTCTGCCGGGCCAGC
GAGGCCAAGGACCTTCTCTTGCAACAGAGAACCCCGAGCCCTGAGGTACCCGGCTGAGTCTCTCCG
AGACACTGTTTCAGCGTCTACAGAGCATGGATACCAGTGGGCTTCCCAGGAGCACCTGAAAGCCATCCA
GGATTATCTGAGCACTCAGCTCCTCCTGGATCCGACTTTTTGAAGACGGGCTCCAGCAACCTCCCTCAC
CTGAAGAAGCTGATGTCAGTCTGCTGCAAGGAGCTCCATGGGGAAGTCATCAGGACTCGCCATCCCTGG
AGTCTCTGCAGAGGTTGTTTGACCAACAGCTCTCCCAGGCTTCCGCCACGACCTCAGGTGCCCGGAGA
GGCCAGTCCCATACCATGGTTGCCAACTCAGCCAATTGACAAGTCTGCTGTCTTCCATTGAAGATAAG
GTCAAGTCTTGCTGCACGAGGGCTCAGAATCTACCAACAGGCGTTCCCTTATCCCTCCGGTACCTTTG
AGGTGAAGTCAGAGTCCCTGGGCATTCTCAGAAAATGCATCTCAAAGTGGACGTTGAGTCTGGGAACT
GATCGTTAAGAAGTCCAAGGATGGTTCTGAGGACAAGTTCTACAGCCACAAAAAATCCTGCAGCTCATT
AAGTCCCAGAAGTTTCTAAACAAGTTGGTATTTTGGTGGAGACGGAGAAGGAGAAAAATCCTGAGGAAGG
AATATGTTTTTGTGACTCTAAGAAAAGAGAAGGCTTCTGTCACTCCTGCAGCAGATGAAGAACAAGCA
TTCGAGCAGCCAGAGCCTGACATGATCACCATCTTATTGGCACTTGGAAACATGGTAATGCACCCCT
CCCAAGAAGATCAGTCTGTTTCTCTCAAGGGCAGGAAAGACACGGGACGACTCTGCTGACTACA
TCCCCATGACATCTATGTGATTGGCACCCAGGAGGATCCCTTGGAGAGAAGGAGTGGCTGGAGCTACT
CAGGCACTCCCTGCAAGAAGTCACCAGCATGACATTTAAACAGTTGCCATCCACACCCCTCTGGAACATT
CGCATAGTGGTGTGTTGCCAAGCCAGAGCATGAGAATCGGATCAGCCATATCTGCACTGACAACGTGAAGA



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CAGGCATCGCCAACACCCTGGGAAACAAGGGAGCAGTGGGAGTGTCTTCATGTTCAATGGAACCTCCTT
 GGGTTTCGTCAACAGCCACTTGACTTCTGGAAGTGAAGGCTCAGGAGAAATCAAACTATATGAAC
 ATCCTGCGGTTCTGGCCCTGGGAGACAAGAAGCTAAGCCATTTAACATCACCACCGCTTCAACCACC
 TCTTCTGGCTTGGGGATCTCAACTACCGCGTGGAGCTGCCACTTGGGAGGCAGAGGCCATCATCCAGAA
 GATCAAGCAACAGCAGTATTAGACCTTCTGGCCACGACCAACTGCTCCTGGAGAGGAAGGACCAGAAG
 GTCTTCTGCACCTTTGAGGAGGAAGAGATCACCTTCGCCCCACCTATCGATTTGAAAGACTGACCCGGG
 ACAAGTATGCATACACGAAGCAGAAAGCAAGGGATGAAGTACAACCTTGGCGTCTGGTGGCAGCGAGT
 CCTCTGGAAGTCTTACCGCTGGTGCATGTGGTCTGTCAGTCTATGGCAGTACCAGTGACATCATGACG
 AGTGACCACAGCCCTGTCTTTGCCACGTTTGAAGCAGGAGTCACATCTCAATTCTGCTCCAAGAATGGTC
 CTGGCACTGTAGATAGCCAAGGGCAGATCGAGTTTCTTGCATGCTACGCCACACTGAAGACCAAGTCCCA
 GACTAAGTTCTACTTGGAGTTCCACTCAAGCTGCTTAGAGAGTTTTGTCAAGAGTCAGGAAGGAGAGAAT
 GAAGAGGGAAAGTGAAGGAGAGCTGGTGGTACGGTTTGGAGAGACTCTTCCAAGCTAAAGCCATTATCT
 CTGACCCCGAGTACTTACTGGACCAGCATATCCTGATCAGCATTAAATCCTCTGACAGTGACGAGTCTTA
 TGGTGAAGGCTGCATTGCCCTTCGCTTGGAGACCACAGAGGCTCAGCATCTATCTACACGCCTCTCACC
 CACCATGGGAGATGACTGGCCACTTCAAGGGAGAGATTAAGCTGCAGACCTCCAGGGCAAGATGAGGG
 AGAAGCTCTATGACTTTGTGAAGACAGAGCGGGATGAATCCAGTGAATGAAATGCTTGAAGAACCCTCAC
 CAGCCATGACCCTATGAGGCAATGGGAGCCTTCTGGCAGGGTCCCTGCATGTGGTGTCTCCAGCCTCAAT
 GAGATGATCAATCCAACTACATTGGTATGGGGCCTTTTGGACAGCCCTGCATGGGAAATCAACCTGT
 CCCCAGATCAGCAACTCACAGCTTGGAGTTATGACCAGTACCCAAAGACTCCTCCCTGGGGCCTGGGAG
 GGGGGAGGGTCTCCAACCCCTCCCTCCAACCACCTCTGTGCGCAAAGAAGTTTTCATCTTCCACAGCC
 AACCGAGTCCCTGCCCCAGGGTGAAGAGGCAAGACCTGGGGATCTGGGAAAGTGGAAGCTCTGCTCC
 AGGAGGACCTGCTGCTGACGAAGCCGAGATGTTTGAGAACCCTGTATGGATCCGTGAGTTCCTTCCC
 TAAGTGGTGCCAGAAAGAGCAGGAGTCTCCAAGATGCTGCGGAAGGAGCCCGCCCTGTCCAGAC
 CCAGGAATCTCATCACCCAGCATCGTGTCTCCCAAGCCCAAGAGGTGGAGAGTGTCAAGGGGACAAGCA
 AACAGGCCCTGTGCCTGTCTTGGCCCCACACCCGGATCCGCTCCTTTACCTGTTCTTCTTCTGCTGA
 GGGCAGAAATGACCAGTGGGGACAAGAGCCAAGGGAAGCCCAAGGCCTCAGCCAGTTCCTCAAGCCCAAGT
 CCAGTCAAGAGGCCTGTCAAGCCTTCCAGGTGAGAAATGAGCCAGCAGACAACACCCATCCAGTCCAC
 GGCCACCCCTGCCAGTCAAGAGTCTGCTGTCTGCGAGTGAACATTCCAAAGGCAGAGACTACCGTGA
 CAACACAGAACTCCCCACCATGGCAAGCACCCCAAGAGGGGGCTGCTTGGCAGGACTGCCATGCAG
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001110192

Insert Size:

3573 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001110192.2](#), [NP_001103662.1](#)

RefSeq Size: 4937 bp

RefSeq ORF: 3573 bp

Locus ID: 16331

UniProt ID: [Q9ES52](#)

Cytogenetics: 1 44.44 cM

Gene Summary: Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3) to produce PtdIns(3,4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways (By similarity). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9367159). Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity. Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.